International application No. PCT/SG2004/000330

Α. (CLASSIFICATION OF SUBJECT MATTER				
Int. Cl. 7:	G06T 7/60, G06F 19/00				
According to I	nternational Patent Classification (IPC) or to	both nat	ional classification and IPC		
	FIELDS SEARCHED				
Minimum docum	nentation searched (classification system followed	by class	ification symbols)		
			that such documents are included in the fields searche	d	
DWPL, PCT,	base consulted during the international search (nar USPTO, internet (microarray, dna chip, pection, scanner, automated, etc.)	ne of dat gene ch	a base and, where practicable, search terms used) nip, IPC: G06T, image analysis, dilation, align	mment,	
	DOCUMENTS CONSIDERED TO BE RELEVA	NT	·		
Category*	Citation of document, with indication, when	e appro	priate, of the relevant passages	Relevant to claim No.	
A	P. Bajscy, Gridline: Automatic Grid All IEEE Transactions on Image Processing http://algdocs.ncsa.uiuc.edu/PB-2004	g, 13(1)), pp. 15-25, January 2004	1-21	
A	EP 1 450 304 A1 (CITY UNIVERSITY the whole document	1-21			
A	T. Srinark et al, A Microarray Image Analysis System Based on Multiple-Snake Journal of Biological Systems, 12(4), December 2004 http://vims.cis.udel.edu/publications/srinark-bioj04.pdf (section 2 in particular)				
A	C. Uehara et al, Towards Automatic And Proc. Sixth IEEE Workshop on Application (section 2.2 in particular)	<i>alysis</i> (ations (of DNA Microarrays of Computer Vision, 2002	1-21	
X F	urther documents are listed in the continu	uation (of Box C X See patent family anne	x	
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" carlier application or patent but published on or after the international filing date or priority date and not international filing date or priority date and no					
alone "L" document which may throw doubts on priority claim(s) "Y" document of particular relevance; the claimed invention cannot be consider involve an inventive step when the document is combined with one or more another citation or other special reason (as specified) alone document of particular relevance; the claimed invention cannot be consider involve an inventive step when the document is combined with one or more such documents, such combination being obvious to a person skilled in the				one or more other	
"O" docume or other	document referring to an oral disclosure, use, exhibition "&" document member of the same patent family or other means				
but later	r than the priority date claimed ual completion of the international search	<u>-</u>	Date of mailing of the international search report		
7 December 2004				2 FEB 2005	
	ling address of the ISA/AU	Authorized officer			
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929			MATTHEW HOLLINGWORTH Telephone No: (02) 6283 2024		
racsimile No.	(02) 0203 3323		1010phone 110 . (02) 0203 2021		

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C (Continua Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to		
		claim No.		
	WO 2002/004123 A1 (ROBODESIGN INTERNATIONAL, INC.), 17 January 2002	22-26, 28		
x	the whole document	22-20, 20		
	20 May 2003	22-26, 28		
X	arrayWoRxeAuto Automated Biochip Reader product brochure, as archived 29 May 2003 http://web.archive.org/web/20030529103926/www.appliedprecision.com/pdfs/products/bio/awe_auto_broch.pdf			
x	ScanArray Express Miroarray Scanner product brochure, as archived 19 July 2003 http://web.archive.org/web/20030719141010/http://las.perkinelmer.com/content/RelatedMaterials/P10361_ScanArray_Brochure.pdf	22-26, 28		
	WO 2004/017376 A2 (MIRAGENE, INC.), 26 February 2004			
X, P	the whole document			
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Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)			
This international reasons:	tional search report has not been established in respect of certain claims under Article 17(2)(a) for the following			
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:			
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:			
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)			
	I Observations where unity of invention is lacking (Continuation of item 3 of first sheet)			
This International Searching Authority found multiple inventions in this international application, as follows: (See supplemental box.)				
	·			
1. X	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.			
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.			
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:			
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:			
Remark o	n Protest			
	X No protest accompanied the payment of additional search fees.			

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Supplemental	В	ox
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(To be used when the space in any of Boxes I to VIII is not sufficient)

Continuation of Box No: III

The international application does not comply with the requirements of unity of invention because it does not relate to one invention or to a group of inventions so linked as to from a single general inventive concept. In coming to this conclusion the International Searching Authority has found that there are two inventions:

- Claims 1-21, directed to a method for automatic inspection of a microarray slide. The use of a dilated image to calculate the orientation of the slide is considered to be a first "special technical feature."
- Claims 22-28, directed to a system for automatic inspection of a microarray slide. Prima facie, this
 invention does not appear to have any "special technical features," since it includes only well-known
 integers and well-known combinations of computing apparatus.

Since the abovementioned groups of claims do not share any technical features, a "technical relationship" between the inventions, as defined in PCT rule 13.2 does not exist. Accordingly, the international application does not relate to one invention or to a single inventive concept.

Information on patent family members

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This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		•		Pate	nt Family Member		
EP	1450304	NONE					
wo	0204123	AU	71822/01	EP	1307291	US	6558623
		US	2004062686	wo	2004099937		
wo	2004017376				<u></u>		

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX